



NOV 03 2004

PTO/SB/08A/B 08-031

Approved for use through 07/31/2006. OMB 0651-0031

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449 PTO

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/800,134
Filing Date	March 11, 2007
First Named Inventor	Gregory Alt
Art Unit	1651
Examiner Name	To be assigned

Sheet
1 of 1

U.S. PATENT DOCUMENTS

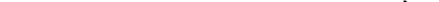
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages Columns, Lines Where Mentioned Paragraphs or Relevant Figures Appear
		Number - Kind Code ² (if known)			
gn	A1	US-6,302,922	10/16/2001	Kanehisa, Keiichiro	
gn	A2	US-5,849,040	12/15/1998	Kanehisa, Keiichiro	
gn	A3	US-5,598,615	02/04/1997	Takada, Toom	
gn	A4	US-6,175,053	01/16/2001	Tsubouchi, Kozo	

FOREIGN PATENT DOCUMENTS

NON-PATENT LITERATURE DOCUMENTS

NON-PIVOT EVIDENCE DOCUMENT

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²

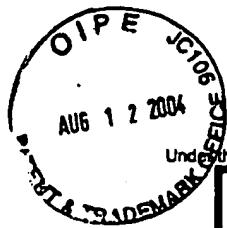
Examiner Signature		Date Considered	11/13/08
--------------------	---	-----------------	----------

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). **2** Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<p>Substitute for form 1449 PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p>				<p><i>Complete if Known</i></p>	
<p>Sheet</p>		<p>1</p>	<p>of</p>	<p>4</p>	<p>Attorney Docket Number</p>
<p>Application Number</p>		<p>10/800,134</p>			
<p>Filing Date</p>		<p>March 11, 2004</p>			
<p>First Named Inventor</p>		<p>Gregory Altman</p>			
<p>Art Unit</p>		<p>1651</p>			
<p>Examiner Name</p>		<p>To be assigned</p>			

Examiner Signature  M. Q. M. Date Considered 10/13/06

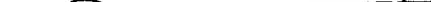
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is

place a check mark here if English language translation is
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
Substitute for form 1449 PTO		Application Number	10/800,134			
		Filing Date	March 11, 2004			
		First Named Inventor	Gregory Altman			
		Art Unit	1651			
		Examiner Name	To be assigned			
Sheet	2	of	4	Attorney Docket Number		032794-54911-CIP

Examiner Signature		Date Considered	11/13/04
--------------------	---	-----------------	----------

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is

place a check mark here if English language Translation is
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449 PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/800,134
Sheet	3	of	4	Filing Date	March 11, 2004
				First Named Inventor	Gregory Altman
				Art Unit	1651
				Examiner Name	To be assigned
				Attorney Docket Number	032794-54911-CIP

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		T ²
Gu	C1	ALTMAN, G.H. et al., Silk Fibers and Materials – Properties and Processing, 11/26/2001		
Gu	C2	ALTMAN, G.H. et al., Silk Matrix for Anterior Cruciate Ligament Tissue Engineering Using Bone Marrow Stromal Cells, 02/10/2002		
Gu	C3	FURUZONO, T. et al., Biomaterials, 21:327-333 (2000)		
Gu	C4	GOSLINE, J.M. et al., The Journal of Experimental Biology, 202:3295-3303 (1999)		
Gu	C5	Gotoh, Y. et al., Biomaterials, 18(3):267-271 (1997)		
Gu	C6	GOTOH Y. et al., J. Biomed. Mater. Res. 39:351-357 (1998)		
Gu	C7	HINMAN, M.B. et al., TIBTECH, 18:374-379 (2000)		
Gu	C8	Hoechst Celanese, Dictionary of Fiber & Textile Technology, pp. 140-141 (1990)		
Gu	C9	KUROSAKI, S. et al., J. Nippon Med. Sch., 66:41-44 (1999)		
Gu	C10	LEE, Yong-woo, FAO Agricultural Services Bulletin No. 136, Food and Agriculture Organization of the United Nations, Rome (1999) available at http://www.fao.org/docrep/x2099e00.htm		

Examiner Signature		Q1	WA	Date Considered	01/13/08
--------------------	---	----	----	-----------------	----------

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449 PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/800,134
(use as many sheets as necessary)				Filing Date	March 11, 2004
				First Named Inventor	Gregory Altman
				Art Unit	1651
				Examiner Name	To be assigned
Sheet	4	of	4	Attorney Docket Number	032794-54911-CIP

ar	C11	LIANG, C.X. et al., Journal of Applied Polymer Science, 45:1937-1943 (1992)
ar	C12	MINOURA N. et al., Journal of Biomedical Materials Research, 29:1215-1221 (1995)
ar	C13	MINOURA, N. et al., Biomaterials, 11:430-434 (1990)
ar	C14	SANTIN, M. et al., J. Biomed. Mater. Res., 46:382-389 (1999)
ar	C15	XU, M. et al., Proc. Natl. Acad. Sci. USA, 87:7120-7124 (1990)
ar	C16	ZHAO, C. et al., Biopolymers, 69:253-259 (2003)

Examiner Signature		Date Considered	4/13/04
-----------------------	---	--------------------	---------

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.